

CLAIMS

1. A video monitor to be connected to a frame having an open window, a border surrounding the open window, and a groove formed in the border, said video monitor comprising:

a display;

5 a shell within which to enclose said display;

a frame mount extending outwardly from said shell to surround said display, said frame mount having a size and shape to be received within the open window of the frame; and

10 a locking latch slidable through said shell and into receipt by the groove of the frame, whereby the frame is coupled to said shell so as to surround said frame mount and permit said display to be visible through the open window of the frame.

2. The video monitor recited in Claim 1, wherein said locking latch has a push tab projecting outwardly from said shell so as to be manually accessible, said push tab receiving a pushing force by which to cause said locking latch to slide through said shell and into receipt by the groove of the frame.

3. The video monitor recited in Claim 1, wherein said locking latch also has a locking finger projecting therefrom, said locking finger moving into receipt by the groove of the frame, whereby the frame and the shell are coupled to one another when said pushing force is applied to said push tab to cause said locking latch to slide through said shell.

4. The video monitor recited in Claim 3, wherein said frame mount has an opening formed therein, the locking finger of said locking latch moving through the opening in said frame mount for receipt by the groove of the frame for connecting the frame in surrounding engagement with said frame mount when said pushing force is applied to said push tab to cause said locking latch
5 to slide through said shell.

5. The video monitor recited in Claim 1, wherein said locking latch has a seat located between said push tab and said locking finger and said shell has a channel formed therewithin, said seat sliding along said channel in response to said pushing force applied to said push tab for causing said locking finger to correspondingly move through the opening in said frame mount for
5 receipt by the groove of the frame.

6. The video monitor recited in Claim 1, further comprising a pair of locking latches located at opposite sides of said frame mount and slidable in opposite directions through said shell and into receipt by the groove of the frame, whereby the frame is coupled to said shell.

7. A video monitor to be connected to a frame having an open window, a border surrounding the open window, and a groove formed in the border, said video monitor comprising:

- a display;
- 5 a shell within which to enclose said display;
- a frame mount extending outwardly from said shell to surround said display, said frame mount having a size and shape to be received within the open window of the frame; and

a pivotal locking latch mounted for rotation within said shell, said pivotal locking latch rotating into receipt by the peripheral groove of the frame, whereby the frame is coupled to said
10 shell so as to surround said frame mount and permit said display to be visible through the open window of the frame.

8. The video monitor recited in Claim 7, wherein said pivotal locking latch has a push tab projecting outwardly from said shell so as to be manually accessible, said push tab receiving a pushing force by which to cause said pivotal locking latch to rotate within said shell and into receipt by the groove of the frame.

9. The video monitor recited in Claim 8, wherein said pivotal locking latch also has a locking finger projecting therefrom, said locking finger moving into receipt by the groove of the frame, whereby the frame and the shell are coupled to one another when said pushing force is applied to said push tab to cause said locking latch to rotate within said shell.

10. The video monitor recited in Claim 9, wherein said frame mount has an opening formed therein, the locking finger of said pivotal locking latch moving through the opening in said frame mount for receipt by the groove of the frame for connecting the frame in surrounding engagement with said frame mount when said pushing force is applied to said push tab to cause said pivotal
5 locking latch to rotate within said shell.

11. The video monitor recited in Claim 10, further comprising a display support plate extending laterally across said shell so as to lie below said frame mount to support said display

within said shell and a pivot pin connected to said display support plate, said pivotal locking latch mounted on said pivot pin and rotatable relative to said display support plate in response to
5 said pushing force applied to said push tab.

12. The video monitor recited in Claim 11, further comprising a spring connected to said pivotal locking latch, said spring generating a pulling force for causing said pivotal locking latch to rotate within said shell and towards the groove of the frame.

13. The video monitor recited in Claim 11, further comprising at least one locking tab projecting from said display support plate, said frame mount having a second opening formed therein, and said locking tab projecting from said display support plate and outwardly through said second opening in said frame mount for receipt by the groove of the frame for connecting
5 the frame in surrounding engagement with said frame mount.

14. The video monitor recited in Claim 1, further comprising at least one locking tab located within said shell and projecting outwardly therefrom through one side of said frame mount for receipt by the groove of the frame, said pivotal locking latch rotating within said shell and projecting outwardly therefrom through the opposite side of said frame mount for receipt by the
5 groove of the frame, whereby said frame is connected in surrounding engagement to said frame mount.